

Human EP₄ Receptor Variant VAR-1

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ATGtccactc cgggggtcaa ttcgtccgcc tccttgagcc ccgaccggct gaacagccca 61
gtgaccatcc cggcggtgat gttcatcttc ggggtggtgg gcaacctggt ggccatcgtg 121
gtgctgtgca agtcgcgcaa ggagcagaag gagacgacct tctacacgct ggtatgtggg 181
ctggctgtca ccgacctgtt gggcactttg ttggtgagcc cggtgacctat cgccacgtac 241
atgaagggcc aatggccccg gggccagccg ctgtgcgagt acagcacctt cattctgctc 301
ttcttcagcc tgtccggcct cagcatcatc tgcgccatga gtgtcgagcg ctacctggcc 361
atcaaccatg cctatttcta cagccactac gtggacaagc gattggcggg cctcacgctc 421
tttgagctct atgcgtccaa cgtgctcttt tgcgcgctgc ccaacatggg tctcggtagc 481
tcgcggtgct agtaccaga cacctggtgc ttcatcgact ggaccacca cgtgacggcg 541
cacgccgcct actcctacat gtacgcgggc ttcagctcct tcctcattct cgccaccgtc 601
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gaggcaggaa tttgcttcca ggtgtgcctg gcatgggcct ggcccaggaa gacaccacct 1381
cactgaggac tttgcgaata tcagagacct cagactcttc acagggtcag gactcagaga 1441
gtgtcttact ggtggatgag gctggtggga gcggcagggc tgggcctgcc cctaagggga 1501
gctccctgca agtcacattt cccagtga aa cactgaactt atcagaaaaa tgtatatata 1561

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FIGURE 1

Human EP₄ Receptor Variant VAR-2

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ATGtccactc cgggggtcaa ttctgtccgcc tccttgagcc cggaccgggt gaacagccca 61
gtgaccatcc cggcgggtgat gttcatcttc ggggtggtgg gcaacctggt ggccatcgtg 121
gtgctgtgca agtcgcgcaa ggagcagaag gagacgacct tctacacgct ggtatgtggg 181
ctggctgtca ccgacctgtt gggcactttg ttggtgagcc cggtgacctat cgccacgtac 241
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ttcttcagcc tgtccggcct cagcatcatc tgcgccatga gtgtcgagcg ctacctggcc 361
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gaacttatca gaaaaatgta tataaa

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FIGURE 2

Human EP₄ Receptor Variant VAR-3

ATGtccactc ccgggggtcaa ttcgtccgcc tccttgagcc ccgaccggct gaacagccca 61
 gtgaccatcc cggcggtgat gttcatcttc ggggtgggtgg gcaacctggg ggccatcggt 121
 gtgctgtgca agtcgcgcaa ggagcagaag gagacgacct tctacacgct ggtatgtggg 181
 ctggctgtca ccgacctgtt gggcactttg ttggtgagcc cggtgaccat cgccacgtac 241
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 ttcttcagcc tgtccggcct cagcatcctc tgcgccatga gtgtcgagcg ctacctggcc 361
 atcaaccatg cctattttcta cagccactac gtggacaagc gattggcggg cctcacgctc 421
 tttgcagtct atgcgtccaa cgtgctcttt tgcgcgtgc ccaacatggg tctcggtagc 481
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 cagccgcct actcctacat gtacgcgggc ttcagctcct tctcattct cgccaccgtc 601
 ctctgcaacg tgcttgtgtg cggcgcgctg ctccgcatgc accgccagtt catgcccgcg 661
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 actgaactta tcagaaaaat gtatataa

FIGURE 3

MSTPGVNSSA	SLSPDRLNSP	VTIPAVMFIF	GVVGNLVAIV	VLCKSRKEQK	ETTFYTLVCG	LAVTDLLGTL	EP4 WT
MSTPGVNSSA	SLSPDRLNSP	VTIPAVMFIF	GVVGNLVAIV	VLCKSRKEQK	ETTFYTLVCG	LAVTDLLGTL	VAR-1
MSTPGVNSSA	SLSPDRLNSP	VTIPAVMFIF	GVVGNLVAIV	VLCKSRKEQK	ETTFYTLVCG	LAVTDLLGTL	VAR-2
MSTPGVNSSA	SLSPDRLNSP	VTIPAVMFIF	GVVGNLVAIV	VLCKSRKEQK	ETTFYTLVCG	LAVTDLLGTL	VAR-3
LVSPVTIATY	MKGQWPGGQP	LCEYSTFILL	FFSLSGLSII	CAMSVERYLA	INHAYFYSHY	VDKRLAGLTL	
LVSPVTIATY	MKGQWPGGQP	LCEYSTFILL	FFSLSGLSII	CAMSVERYLA	INHAYFYSHY	VDKRLAGLTL	
LVSPVTIATY	MKGQWPGGQP	LCEYSTFILL	FFSLSGLSII	CAMSVERYLA	INHAYFYSHY	VDKRLAGLTL	
LVSPVTIATY	MKGQWPGGQP	LCEYSTFILL	FFSLSGLSII	CAMSVERYLA	INHAYFYSHY	VDKRLAGLTL	
FAVYASNVLF	CALPNMGLGS	SRLQYPDTWC	FIDWTTNVTA	HAAYSIMYAG	FSSFLILATV	LCNVLVCGAL	
FAVYASNVLF	CALPNMGLGS	SRLQYPDTWC	FIDWTTNVTA	HAAYSIMYAG	FSSFLILATV	LCNVLVCGAL	
FAVYASNVLF	CALPNMGLGS	SRLQYPDTWC	FIDWTTNVTA	HAAYSIMYAG	FSSFLILATV	LCNVLVCGAL	
FAVYASNVLF	CALPNMGLGS	SRLQYPDTWC	FIDWTTNVTA	HAAYSIMYAG	FSSFLILATV	LCNVLVCGAL	
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LRMHRQFMRR	TSLGTEQHHA	AAAASVASRG	HPAASPALPR	LSDFRRRRSF	RRIAGAEIQM	VILLIATSLV	
LRMHRQFMRR	TSLGTEQHHA	AAAASVASRG	HPAASPALPR	LSDFRRRRSF	RRIAGAEIQM	VILLIATSLV	
LRMHRQFMRR	TSLGTEQHHA	AAAASVASRG	HPAASPALPR	LSDFRRRRSF	RRIAGAEIQM	VILLIATSLV	
VLICSIPLVV	RVFVNQLYQP	SLEREVSKNP	DLQAIRIASV	NPILDPWIYI	LLRKTVLASKA	IEKIKCLFCH	
VLICSIPLVA	NWKWSHKTTD	GMSDECEAHL	YIQEKCHKFG	CEYSSTSYIS	QVWSEKSVKI	QICRPSELLL	
VLICSIPLVF	PKLQMKNLHY	SATYRVAIGA	SIRQPVISAK	FGARSQ----	-----	-----	
VLICSIPLVA	NWKWSHKTTD	GMSDECEAHL	YIQEKCHKFG	YDYDRI----	-----	-----	
IGGSRRRERSG	QHCSDSQRTS	SAMSGHSRSF	ISRELKEISS	TSQTLLPDLS	LPDLSENGLG	GRNLLPGVPG	
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-----	-----	-----	-----	-----	-----	-----	
MGLAQEDTTS	LRTLRISETS	DSSQGQDSES	VLLVDEAGGS	GRAGPAPKGS	SLQVTFPSET	LNLSEKCI	
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FIGURE 4



Multiple Tissue Distribution of Alternative Splicing Variants of EP₄ Receptor

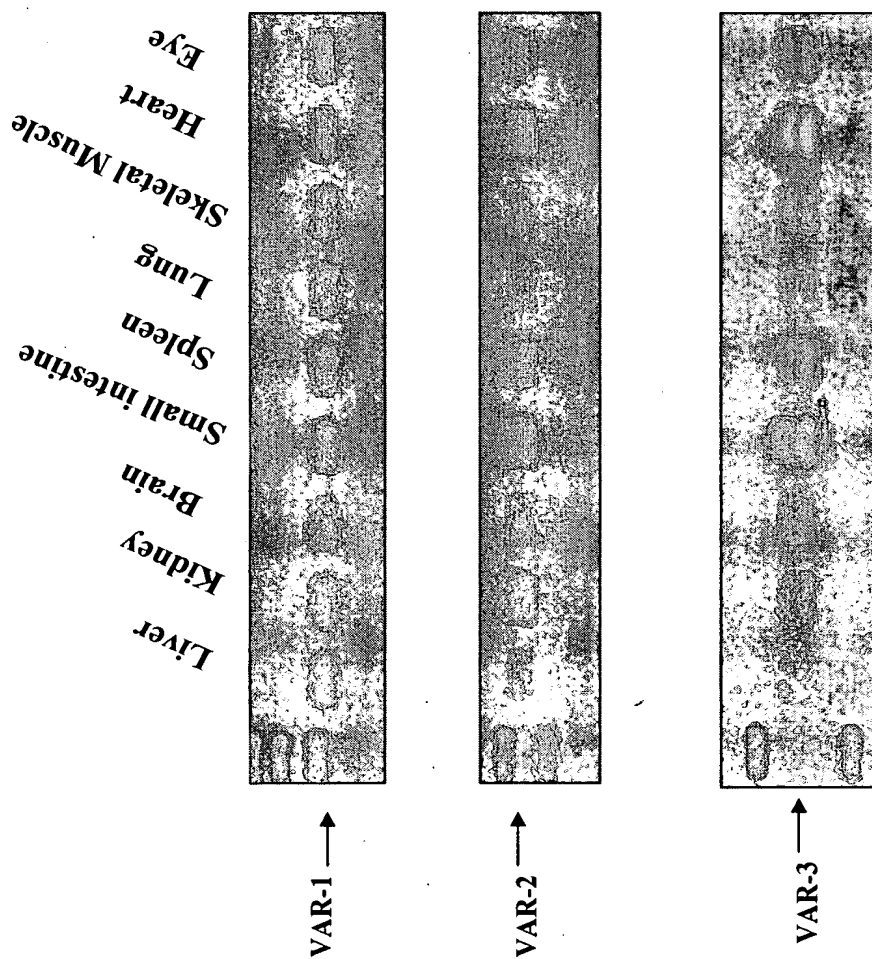


FIGURE 6